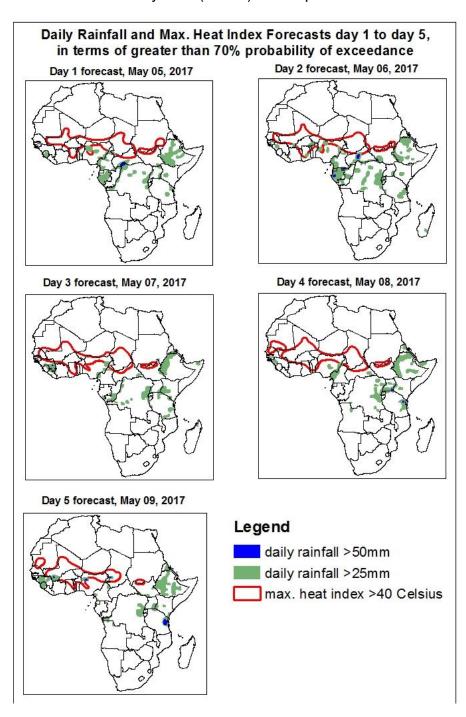
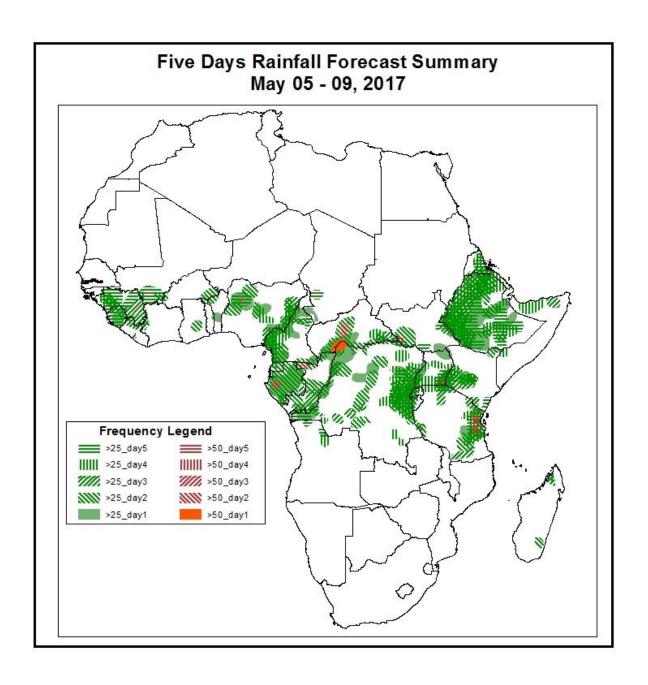
## 1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on May 04, 2017)

## **1.1. Daily Rainfall and Maximum Heat Index Forecasts** (valid: May 05 – 09, 2017)

The forecasts are expressed in terms of high probability of precipitation (POP) and high probability of maximum heat index, based on the NCEP/GFS, ECMWF and the NCEP Global Ensemble Forecasts System (GEFS) and expert assessment.



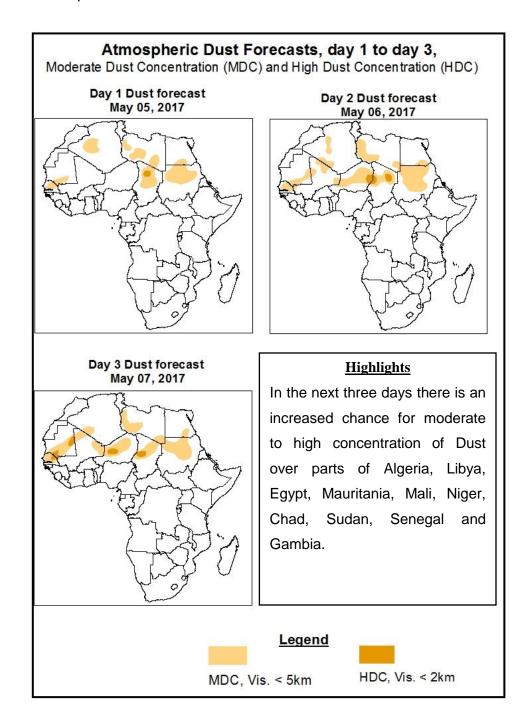


# <u>Highlights</u>

In the next five days, lower level wind convergences across the Central and South African countries are expected to enhance rainfall in their respective regions. Therefore, there is an increased chance for two or more days of moderate to heavy rainfall over portions of Eritrea, Guinea, Liberia, Cameroon, Equatorial Guinea, Gabon, Congo, Ethiopia, Uganda and local areas of Mali, Nigeria, CAR, DRC, South Sudan, Kenya, Rwanda, Burundi, Tanzania, Angola and Madagascar.

## 1.2. Atmospheric Dust Concentration Forecasts (valid: May 05 – 07, 2017)

The forecasts are expressed in terms of high probability of dust concentration, based on the Navy Aerosol Analysis and Prediction System, NCEP/GFS lower-level wind forecasts and expert assessment.



#### **1.3. Model Discussion,** Valid: May 05 – 09, 2017

The Azores High Pressure system over the North Atlantic Ocean is expected to intensify with its value of the central pressure increasing from 1024hPa to 1028hPa during the next 72 hours and weaken to 1019hPa during the remaining forecast period.

The St. Helena High Pressure system over the Southeast of the Atlantic Ocean is expected to weaken with its value of the central pressure decreasing from 1031hPa to 1021hPa during the next 96 hours and intensify to 1023hPa during the remaining forecast period.

The Mascarene High Pressure system over the Southwest Indian Ocean is expected to weaken with its value of the central pressure decreasing from 1035hPa to 1031hPa during the next 72 hours and intensify to 1036hPa during the remaining forecast period.

At 925hPa, strong dry Northeasterly to Easterly winds may lead from light to moderate dust concentration over parts of Algeria, Libya, Egypt, Mauritania, Mali, Niger, Chad, Sudan, Senegal and Gambia.

At 850hPa level, lower level wind convergences are expected to prevail over Cameroon, CAR, DRC, South Sudan, Ethiopia, Somalia, Uganda, Kenya, Rwanda, Burundi, Tanzania, Angola, Zambia, Malawi and South Africa.

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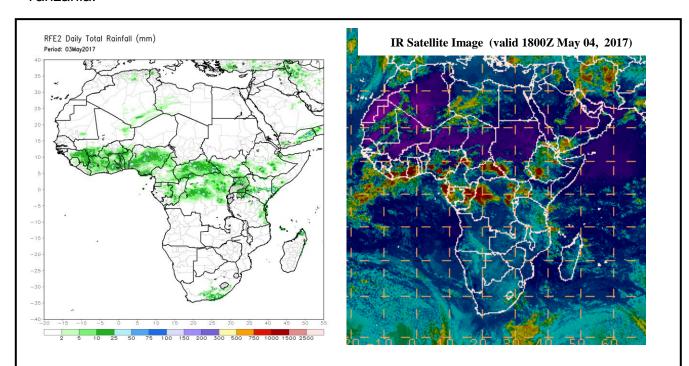
## 2.0. Previous and Current Day Weather over Africa

## 2.1. Weather assessment for the previous day (May 03, 2017)

Light to moderate rainfall was observed over portions of Mali, Cote d'Ivoire, Ghana, Togo, Benin, Nigeria, CAR, DRC, South Sudan, Ethiopia, Somalia, Uganda, Kenya, Tanzania, South Africa and Madagascar.

## 2.2. Weather assessment for the current day (May 04, 2017)

Intense convective clouds are observed over portions of Burkina Faso, Guinea, Sierra Leone, Liberia, Cote d'Ivoire, Ghana, Togo, Benin, Nigeria, Cameroon, Equatorial Guinea, Gabon, Congo, CAR, DRC, South Sudan, Uganda, Ethiopia, Somalia, Uganda, Kenya, and Tanzania.



Previous day rainfall condition over Africa (Left) based on the NCEP CPCE/RFE and current day cloud cover (right) based on IR Satellite image.

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